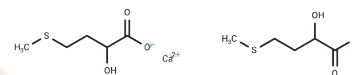


Calcium 2-hydroxy-4-(methylthio)butanoate

Chemical Properties

CAS No. :	4857-44-7
Formula:	C10H18CaO6S2
Molecular Weight:	338.45
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Calcium 2-hydroxy-4-(methylthio)butanoate (Calcium 2-hydroxy-4-(calcium hydroxymethionine)) is a solid, water-soluble, weakly acidic nutrition enhancer (based on its pKa). This compound, also known as 2-Hydroxy-4-(methylthio)butanoic acid, has been primarily detected in urine and is mainly located in the cytoplasm and adiposome of cells.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 55 mg/mL (162.51 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.91 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9546 mL	14.7732 mL	29.5465 mL
5 mM	0.5909 mL	2.9546 mL	5.9093 mL
10 mM	0.2955 mL	1.4773 mL	2.9546 mL
50 mM	0.0591 mL	0.2955 mL	0.5909 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Lingwood D, et al. Lipid rafts as a membrane-organizing principle. Science. 2010 Jan 1;327(5961):46-50.

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